CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.07/CSR-05/346c/CEMENT/2017-18 Date: 29.05.2017

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of Work	:	Improvements to roads and drains in Byatarayanapura Gramatana in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	AEE/KSD/PR/253/2017-18 Dated: 26.05.2017
* Sample ID	:	Cement
Sample Received on	:	26.05.2017
Period of Testing	:	26.05.2017 to 29.05.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Chief Executive Officer

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Job No.: CTCE/BBMP/KRIDL/W.No.07/CSR-05/346c/SAND-Gradation/2017-18 29.05.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: **Executive Engineer,** KRIDL, Bangalore.
* Name of Work	: Improvements to roads and drains in Byatarayanapura Gramatana in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/253/2017-18 Dated: 26.05.2017
* Sample ID	: Fine Aggregates
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 26.05.2017
Date of Testing	: 29.05.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.50	90-100	90-100	90-100	95-100
2.36	73.50	60-95	75-100	85-100	95-100
1.18	48.70	30-70	55-90	75-100	90-100
600 Micron	22.20	15-34	35-59	60-79	80-100
300 Micron	10.40	5-20	8-30	12-40	15-50
150 Micron	4.90	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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****

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Job No.: CTCE/BBMP/KRIDL/W.No.07/CSR-05/346c/AGG/GR/2017-18 29.05.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of Work	:	Improvements to roads and drains in Byatarayanapura Gramatana in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	AEE/KSD/PR/253/2017-18 Dated: 26.05.2017
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	26.05.2017
Date of Testing	:	29.05.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.50	95-100	85-100
20	40.60	30-70	0-20
10	18.00	10-35	0-5
4.75	3.00	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/KRIDL/W.No.07/CSR-05/346c/AGG/GR/2017-18 29.05.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: **Executive Engineer,** KRIDL, Bangalore.
* Name of Work	: Improvements to roads and drains in Byatarayanapura Gramatana in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/253/2017-18 Dated: 26.05.2017
* Sample ID	: Coarse Aggregates (20mm)
Technical Reference	: IS : 2386 (Part 1) -1963(RA-2011)
Sample Received on	: 26.05.2017
Date of Testing	: 29.05.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2011)	
		Graded	Single Sized
40	100	100	100
20	96.76	95-100	85-100
10	32.48	25-55	0-20
4.75	7.32	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/KRIDL/W.No.07/Steel/2017-18

31.05.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of work	:	Improvements to roads and drains in Byatarayanapura Gramatana in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	AEE/KSD/PR/253/2017-18 Dated: 26.05.2017
* Samples ID	:	8mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	31.05.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	512	553	13.05	O.K	O.K

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Job No.: CTCE/BBMP/KRIDL/W.No.07/Steel/2017-18

31.05.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of work	:	Improvements to roads and drains in Byatarayanapura Gramatana in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	AEE/KSD/PR/253/2017-18 Dated: 26.05.2017
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	31.05.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	515	556	13.25	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.07/CSR-05/346c/Cube/2017-18 30.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: **Executive Engineer,** KRIDL, Bangalore.
* Name of the work	: Improvements to roads and drains in Byatarayanapura Gramatana in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/253/2017-18 Dated: 26.05.2017
* Sample ID	: RCC Drain Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 30.06.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.06.2017	30.06.2017	8.258	488.3	21.70
2	02.06.2017	30.06.2017	8.374	496.2	22.05
3	02.06.2017	30.06.2017	8.496	500.8	22.26

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Job No.: CTCE/BBMP/KRIDL/W.No.07/CSR-05/346c/Cube/2017-18 03.07.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: **Executive Engineer,** KRIDL, Bangalore.
* Name of the work	: Improvements to roads and drains in Byatarayanapura Gramatana in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/253/2017-18 Dated: 26.05.2017
* Sample ID	: RCC Drain Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 03.07.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.06.2017	03.07.2017	8.163	485.3	21.57
2	05.06.2017	03.07.2017	8.205	490.2	21.79
3	05.06.2017	03.07.2017	8.347	503.4	22.37

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Job No.: CTCE/BBMP/KRIDL/W.No.07/CSR-05/346c/Cube/2017-18

10.07.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: **Executive Engineer,** KRIDL, Bangalore.
* Name of the work	: Improvements to roads and drains in Byatarayanapura Gramatana in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/253/2017-18 Dated: 26.05.2017
* Sample ID	: Road Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 10.07.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.06.2017	10.07.2017	8.003	523.4	23.26
2	12.06.2017	10.07.2017	8.165	499.2	22.19
3	12.06.2017	10.07.2017	8.244	510.8	22.70

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Job No.: CTCE/BBMP/KRIDL/W.No.07/CSR-05/346c/Cube/2017-18 10.07.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: **Executive Engineer,** KRIDL, Bangalore.
* Name of the work	: Improvements to roads and drains in Byatarayanapura Gramatana in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/253/2017-18 Dated: 26.05.2017
* Sample ID	: Road Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 10.07.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.06.2017	10.07.2017	8.260	512.4	22.77
2	12.06.2017	10.07.2017	8.184	488.2	21.70
3	12.06.2017	10.07.2017	8.314	508.3	22.59

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Job No.: CTCE/BBMP/KRIDL/W.No.07/CSR-05/346c/Cube/2017-18 10.07.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: **Executive Engineer,** KRIDL, Bangalore.
* Name of the work	: Improvements to roads and drains in Byatarayanapura Gramatana in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/253/2017-18 Dated: 26.05.2017
* Sample ID	: Road Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 10.07.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.06.2017	10.07.2017	8.320	492.4	21.88
2	12.06.2017	10.07.2017	8.149	530.4	23.57
3	12.06.2017	10.07.2017	8.058	518.2	23.03

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Job No.: CTCE/BBMP/KRIDL/W.No.07/CSR-05/346c/Cube/2017-18 12.07.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: **Executive Engineer,** KRIDL, Bangalore.
* Name of the work	: Improvements to roads and drains in Byatarayanapura Gramatana in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/253/2017-18 Dated: 26.05.2017
* Sample ID	: Road Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 12.07.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.06.2017	12.07.2017	8.169	486.2	21.61
2	14.06.2017	12.07.2017	8.304	505.4	22.46
3	14.06.2017	12.07.2017	8.248	516.2	22.94

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T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.07/CSR-05/346c/Cube/2017-18 12.07.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: **Executive Engineer,** KRIDL, Bangalore.
* Name of the work	: Improvements to roads and drains in Byatarayanapura Gramatana in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/253/2017-18 Dated: 26.05.2017
* Sample ID	: Road Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{30}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 12.07.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.06.2017	12.07.2017	8.009	514.8	22.88
2	14.06.2017	12.07.2017	8.253	518.3	23.04
3	14.06.2017	12.07.2017	8.310	522.6	23.23

*Information is furnished by the Customer/Representative.

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Chief Executive Officer

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.07/CSR-05/346c/Cube/2017-18 12.07.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: **Executive Engineer,** KRIDL, Bangalore.
* Name of the work	: Improvements to roads and drains in Byatarayanapura Gramatana in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/253/2017-18 Dated: 26.05.2017
* Sample ID	: Road Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 12.07.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.06.2017	12.07.2017	8.362	498.3	22.15
2	14.06.2017	12.07.2017	8.150	509.4	22.64
3	14.06.2017	12.07.2017	8.087	520.4	23.13

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: **Executive Engineer,** KRIDL, Bangalore.
* Name of the work	: Improvements to roads and drains in Byatarayanapura Gramatana in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/253/2017-18 Dated: 26.05.2017
* Sample ID	: Road Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 15.07.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.06.2017	15.07.2017	8.165	487.3	21.66
2	17.06.2017	15.07.2017	8.207	491.5	21.84
3	17.06.2017	15.07.2017	8.329	521.8	23.19

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: **Executive Engineer,** KRIDL, Bangalore.
* Name of the work	: Improvements to roads and drains in Byatarayanapura Gramatana in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/253/2017-18 Dated: 26.05.2017
* Sample ID	: Road Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 15.07.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.06.2017	15.07.2017	8.286	488.3	21.70
2	17.06.2017	15.07.2017	8.147	496.8	22.08
3	17.06.2017	15.07.2017	8.320	482.9	21.46

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: **Executive Engineer,** KRIDL, Bangalore.
* Name of the work	: Improvements to roads and drains in Byatarayanapura Gramatana in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/253/2017-18 Dated: 26.05.2017
* Sample ID	: Road Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 15.07.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.06.2017	15.07.2017	8.063	480.3	21.35
2	17.06.2017	15.07.2017	8.245	509.3	22.64
3	17.06.2017	15.07.2017	8.150	513.7	22.83

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Job No.:CTCE/BBMP/KRIDL/W.No.07/CSR-05/346c/Precast Slab/2017-18 21.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of work	:	Improvements to roads and drains in Byatarayanapura Gramatana in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	AEE/KSD/PR/253/2017-18 Dated: 26.05.2017
* Sample ID	:	Precast Slab
* Grade of Concrete	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	16.06.2017
Date of Testing	:	21.06.2017

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.403	2503.00	1.64	0.961	31.62	16.10	17.39	18.10	22.62
2	50.00	81.00	0.406	2552.77	1.62	0.959	32.54	16.57	17.90	17.16	21.45
3	50.00	80.00	0.408	2597.41	1.60	0.957	33.82	17.22	18.60	17.80	22.25

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